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1. A training device to teach the proper motion for casting a fly line comprising:
    - (a) a throwing projectile with a bore therethrough;
    - (b) an elongated piece, said elongated piece having a first mounting section for mounting the elongated piece on a terminal end of a fly rod and a second throwing projectile section whereby said throwing projectile slides onto said throwing projectile section through said throwing projectile bore;
    - (c) means for mounting said elongated piece using said first mounting section to a terminal end of a fly rod.
  2. A training device to teach the proper motion for casting a fly line of Claim 1 wherein in said mounting section portion of said elongated piece said elongated piece is bent at a predetermined angle whereby said second throwing projectile section is at said predetermined angle to a terminal end of a fly rod when said elongated piece is mounted on a terminal end of a fly rod.
  3. A training device to teach the proper motion for casting a fly line of Claim 2 wherein said predetermined angle is at least  $90^\circ$ .
  4. A training device to teach the proper motion for casting a fly line of Claim 3 wherein said predetermined angle is  $90^\circ + A^\circ$ ,  $A^\circ$  a predetermined amount based on the stiffness of a fly rod with which said training device is to be used.

5. A training device to teach the proper motion for casting a fly line of Claim 4 wherein said throwing projectile is a predetermined shape, size, and weight so as to most closely approximate casting a particular type of fly line.

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6. A training device to teach the proper motion for casting a fly line of Claim 5 wherein said elongated piece further includes means for stopping movement of said throwing projectile onto said throwing projectile section of said elongated piece; 112

7. A training device to teach the proper motion for casting a fly line of Claim 6 wherein said predetermined shape of said throwing projectile is approximately spherical.

8. A training device to teach the proper motion for casting a fly line of Claim 7 wherein said predetermined size of said throwing projectile is between one and three inches in diameter.

9. A training device to teach the proper motion for casting a fly line of Claim 8 wherein said predetermined weight of said throwing projectile is determined by the weight of 30 feet of a predetermined type of fly line for which the throwing projectile is to be used to simulate a cast.

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10. A training device to teach the proper motion for casting a fly line of Claim 9 wherein said means for stopping is a collar placed around said throwing projectile section of said elongated piece.

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11. A training device to teach the proper motion for casting a fly line of Claim 10 wherein said elongated piece further comprises means for holding said throwing projectile in place against said

means for stopping whereby said throwing projectile is held in place against a force of gravity, but said means for holding is calibrated to release said throwing projectile when said training device in use during a practice cast.

12. A training device to teach the proper motion for casting a fly line comprising:

- (a) a throwing projectile;
- (b) means for mounting said throwing projectile onto a fly rod whereby said throwing projectile is projected forward in an approximate direction that a fly line would be projected forward when an appropriate casting motion is made using a fly rod.

13. A training device to teach the proper motion for casting a fly line of Claim 12 wherein said throwing projectile is of a predetermined shape, size, and weight so as to most closely approximate casting a particular type of fly line.

14. A training device to teach the proper motion for casting a fly line of Claim 13 wherein said predetermined shape of said throwing projectile is approximately spherical.

15. A training device to teach the proper motion for casting a fly line of Claim 14 wherein said predetermined size of said throwing projectile is between one and three inches in diameter.

16. A training device to teach the proper motion for casting a fly line of Claim 15 wherein said predetermined weight of said throwing projectile is determined by the weight of 30 feet of a predetermined type of fly line for which the throwing projectile is to be used to simulate a cast.

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17. A method for teaching the proper motion for casting a fly line comprising:
- (a) mounting an elongated piece on a terminal end of a fly rod;
  - (b) mounting a throwing projectile on a throwing projectile section of said elongated piece;
  - (c) making a casting motion of a fly rod with said elongated piece and said throwing projectile mounted thereon;
  - (d) observing the results of movement of said throwing projectile;
  - (e) repeating said casting motion if the trajectory of the throwing projectile is satisfactory or changing said casting motion if trajectory of said throwing projectile is unsatisfactory;
  - (f) repeating said casting motion until the user is able to consistently achieve a satisfactory trajectory of said throwing projectile.

18. A method for teaching the proper motion for casting a fly line of Claim 18 wherein said method further includes bending said elongated piece at an angle of at least  $90^\circ$ .

19. A method for teaching the proper motion for casting a fly line of Claim 18 wherein said method further includes bending said elongated piece at an angle of  $90^\circ + A^\circ$ ,  $A^\circ$  a predetermined amount based on the stiffness of a fly rod with which said training device is to be used.

20. A method for teaching the proper motion for casting a fly line of Claim 19 wherein said method further includes making said throwing projectile approximately spherical in shape and between one and three inches in diameter.